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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/672,892
	Filing Date	September 26, 2003
	First Named Inventor	Ivan ALFERIEV
	Art Unit	1711
	Examiner Name	Rachel F. Gorr
Total Number of Pages in This Submission	Attorney Docket Number	T1118/20076

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**JUN 13 2005**

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JUN 14 2005



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
PATENT EXAMINING OPERATION

Applicant(s): Ivan ALFERIEV et al.

Serial No: 10/672,892

Group Art Unit: 1711

Filed: September 26, 2003

Examiner: Rachel F. Gorr

Att. Docket No.: T1118/20076

Confirmation No.: 9557

For: DERIVATIZED POLYURETHANE COMPOSITIONS WHICH EXHIBIT ENHANCED  
STABILITY IN BIOLOGICAL SYSTEMS AND METHODS OF MAKING THE SAME

**REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT  
FOR APPLICANT'S MISTAKE (37 C.F.R. §1.322)**

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Sir:

It is respectfully requested that a Certificate of Correction be issued in order to correct the errors specified in the attached Certificate of Correction Form PTO/SB44.

The Patent and Trademark Office erred in listing the correct filing date in the "Related U.S. Application Data" section on the face of the patent for Application No. 09/620,857 filed on July 21, 2000. Enclosed is a copy of the filing receipt indicating the correct filing date as January 21, 2000 and a copy of the face of U.S. Patent No. 6,900,282 showing the erroneous filing date.

Accordingly, it is respectfully submitted that no fee is due in relation to this matter in accordance with the provisions of 37 C.F.R. §1.322. However, should any fee be due, please charge the same against Deposit Account No. 03-0075 in order to ensure prompt issuance of a Certificate of Correction.

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Respectfully submitted,

CAESAR, RIVISE, BERNSTEIN,  
COHEN & POKOTILOW, LTD.

By Marina E. Volin

Marina E. Volin  
Registration No. 52,328  
Customer No. 03000  
(215) 567-2010  
Attorneys for Applicant(s)

June 7, 2005

Please charge or credit our Account  
No. 03-0075 as necessary to effect  
entry and/or ensure consideration of  
this submission.

JUN 14 2005

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 6,900,282  
APPLICATION NO.: 10/672,892  
ISSUE DATE : May 31, 2005  
INVENTOR(S) : Ivan Aferiev, Ilia Fishbein, Robert J. Levy

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the "Related U.S. Application Data" section on the face of Patent No. 6,900,282, paragraph (63), the filing date of Application No. 09/620,857 "Jan. 21, 2000" should read -- July 21, 2000--.

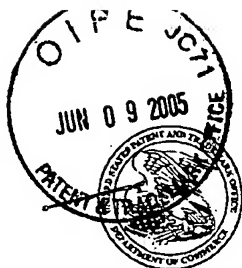
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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/672,892	09/26/2003	1711	429	T1118-20076	2	26	2

CONFIRMATION NO. 9557

## FILING RECEIPT



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Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Ivan Alferiev, Clementon, NJ;  
 Ilia Fishbein, Philadelphia, PA;  
 Robert J. Levy, Merion Station, PA;

## Domestic Priority data as claimed by applicant

This application is a CIP of 09/985,316 11/02/2001  
 and is a CON of 09/620,857 07/21/2000 PAT 6,320,011  
 and claims benefit of 60/413,460 09/26/2002

## Foreign Applications

If Required, Foreign Filing License Granted: 12/18/2003

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

\*\* SMALL ENTITY \*\*

JUN 14 2005



US006900282B2

(12) **United States Patent**  
Alferiev et al.

(10) **Patent No.:** US 6,900,282 B2  
(45) **Date of Patent:** May 31, 2005

(54) **DERIVATIZED POLYURETHANE COMPOSITIONS WHICH EXHIBIT ENHANCED STABILITY IN BIOLOGICAL SYSTEMS AND METHODS OF MAKING THE SAME**

(75) **Inventors:** Ivan Alferiev, Clementon, NJ (US); Iliia Fishbein, Philadelphia, PA (US); Robert J. Levy, Merion Station, PA (US)

(73) **Assignee:** The Children's Hospital of Philadelphia, Philadelphia, PA (US)

(\*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 55 days.

(21) **Appl. No.:** 10/672,892

(22) **Filed:** Sep. 26, 2003

(65) **Prior Publication Data**

US 2004/0092698 A1 May 13, 2004

#### Related U.S. Application Data

(63) Continuation-in-part of application No. 09/985,316, filed on Nov. 2, 2001, now Pat. No. 6,689,861, which is a continuation of application No. 09/620,857, filed on Jan. 21, 2000, now Pat. No. 6,320,011.

(60) Provisional application No. 60/413,460, filed on Sep. 26, 2002, and provisional application No. 60/145,318, filed on Jul. 23, 1999.

(51) **Int. Cl.<sup>7</sup>** ..... C08G 18/30

(52) **U.S. Cl.** ..... 528/49; 525/452; 525/453; 525/454; 521/53

(58) **Field of Search** ..... 528/49; 525/452, 525/453, 454; 521/53

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*Primary Examiner*—Rachel Gorr

(74) *Attorney, Agent, or Firm*—Caesar, Rivise Bernstein, Cohen & Pokotilow, Ltd.

(57) **ABSTRACT**

A process for preparing the polyurethane derivative, the process including: providing a polyurethane having a urethane amino moiety, providing a multifunctional linker reagent of a formula:  $LG-R_L-(FG)_n$ , wherein n is an integer from 1 to 3, FG is a functional group, which is a halogen, a carboxyl group, a sulfonate ester, or an epoxy group, LG is a leaving group, which is a halogen, a carboxyl group, a sulfonate ester, or an epoxy group, and  $R_L$  is an (n+1)-valent organic radical having at least one carbon atom; providing a protected thiol-containing reagent of a formula  $R-C(O)SH$ , or a salt thereof, wherein R is a  $C_1$  to  $C_6$  alkyl group; reacting the multifunctional linker reagent with the urethane amino moiety to form a polyurethane substituted with at least one substituent group of a formula:  $-R_L-(FG)_n$ ; reacting the polyurethane with a protected thiol-containing reagent to form the polyurethane derivative.

27 Claims, 2 Drawing Sheets

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